



## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
www.uspto.gov

| APPLICATION NUMBER | FILING/RECEIPT DATE | FIRST NAMED APPLICANT | ATTORNEY DOCKET NUMBER |
|--------------------|---------------------|-----------------------|------------------------|
| 10/051,366         | 01/18/2002          | Peter Crane           | 169.12-0514            |

CONFIRMATION NO. 6952

00164

KINNEY & LANGE, P.A.  
THE KINNEY & LANGE BUILDING  
312 SOUTH THIRD STREET  
MINNEAPOLIS, MN 55415-1002

## FORMALITIES LETTER



\*OC000000007467174\*

Date Mailed: 02/13/2002

## NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

03/08/2002 AOSMAN1 00000089 10051366

FILED UNDER 37 CFR 1.53(b)

|           |           |
|-----------|-----------|
| 01 FC:101 | 740.00 OP |
| 02 FC:103 | 36.00 OP  |
| 03 FC:105 | 130.00 OP |

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.  
*Applicant must submit \$ 740 to complete the basic filing fee for a non-small entity. If appropriate, applicant may make a written assertion of entitlement to small entity status and pay the small entity filing fee (37 CFR 1.27).*
- Total additional claim fee(s) for this application is \$36.
  - \$36 for 2 total claims over 20.
- The oath or declaration is missing.  
*A properly signed oath or declaration in compliance with 37 CFR 1.63, identifying the application by the above Application Number and Filing Date, is required.*
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 906.**

*A copy of this notice **MUST** be returned with the reply.*

  
Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 1 - ATTORNEY/APPLICANT COPY



03-04-02

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

|                      |  |
|----------------------|--|
| First Named Inventor | : Peter Crane et al.                                 |
| Appln. No.           | : 10/051,366   |
| Filed                | : January 18, 2002                                   |
| Title                | : MOVING COIL MICRO ACTUATOR WITH REDUCED ROTOR MASS |
| Docket No.           | : I69.12-0514  |

**RESPONSE TO NOTICE TO FILE MISSING PARTS  
OF APPLICATION - FILING DATE GRANTED  
UNDER 37 C.F.R. 1.53(f) AND 1.16(e)**

Box Missing Parts  
Assistant Commissioner for Patents  
Washington, D.C. 20231

SENT VIA EXPRESS MAIL

Express Mail No.: EL328156160US

Sir:

In response to the Notice to File Missing Parts of Application - Filing Date Granted dated February 13, 2002, Applicant encloses the following documents to complete the above-identified patent application filed January 18, 2002:

1. A check in the amount of \$906.00 to cover the filing fee of \$740.00, \$36.00 for 2 total claims over 20 and surcharge fee of \$130.00, and two checks in the amount of \$40.00 each covering the recording fee.
2. Declaration executed by the inventor(s).
3. Power of Attorney.
4. Associate Power of Attorney.
5. Executed Assignment of the invention to Seagate Technology LLC, and Recordation Form Cover Sheet.
6. Response To Notice To File Missing Parts Of Application - Filing Date Granted Under 37 C.F.R. 1.53(f) And 1.16(e)

7. Notice to File Missing Parts of Application-Filing Date Granted.
8. Submission Under 37 C.F.R. 3.73(b).
9. File Data Sheet
10. Preliminary Amendment
11. Letter to Official Draftsman
12. Eleven (11) sheets of Formal Drawings.
13. Fee Transmittal Sheet
14. Utility Patent Application Transmittal Sheet

The Commissioner is authorized to charge payment of any additional fees associated with this paper or credit any overpayment to Deposit Account No. 11-0982. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

KINNEY & LANGE, P.A.

Date:

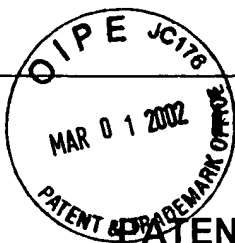
3/1/02

By:



David R. Fairbairn, Reg. No. 26,047  
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DRF:ks



#3

UTILITY  
PATENT APPLICATION  
TRANSMITTALOur Docket No.: **I69.12-0514**

Date: Herewith

First Named Inventor: **Peter Crane et al.**Title: **MOVING COIL MICRO ACTUATOR WITH REDUCED ROTOR MASS**Express Mail No.: **EL328156160US**

## APPLICATION ELEMENTS

## ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, D.C. 20231

1. ☒ Fee Calculation Sheet  
(Submit an original and a duplicate for fee processing)

2. ☐ Applicant claims small entity status

3. ☐ Specification Total Pages ☐
- Descriptive title of the invention
  - Cross References to Related Applications
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claims
  - Abstract of the Disclosure

4. ☒ Drawings (35 U.S.C. 113) Total Sheets **[11]**

5. ☒ Oath or Declaration Total Pages **[6]**

- a. ☒ Newly Executed (original or copy)  
b. ☐ Copy from a prior application (37 C.F.R. 1.63(d) - for continuation/divisional with Box 18 completed)

**[Mark Box 5 below]**

- I. ☐ DELETION OF INVENTOR(S)

Signed statement attached deleting inventor(s) named in the prior application, see 37 C.F.R. 1.63(d)(2) and 1.33(b)

6. ☒ Application Data Sheet. See 37 CFR 1.76.

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (*Appendix*)
8. Nucleotide and/or Amino Acid Sequence Submission (*If applicable, all necessary*)
- a. ☐ Computer Readable Copy (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies; or
- ii. ☐ Paper
- c. ☐ Statements verifying identify of above copies

## ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☒ 37 C.F.R. 3.73(b) Submission
- ☒ Power of Attorney
11. ☐ English Translation Document (*if applicable*)
12. ☐ Information Disclosure Statement with copies of Citations as necessary
13. ☐ Preliminary Amendment Total Pages ☐
14. ☒ Return Receipt Postcard (*Should be specifically itemized*)
15. ☐ Certified Copy of Priority document(s) (*If foreign priority is claimed*)
16. ☐ Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). (Nonpublication Request)
17. ☐ Other

18. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Division ☐ Continuation-in-part (CIP) of prior Application No.

Prior Application Information: Examiner            Group Art Unit           

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

## 19. CORRESPONDENCE ADDRESS

ATTY NAME  
AND REG. NO.David R. Fairbairn,  
Reg. No. 26,047

SIGNATURE:

ADDRESS

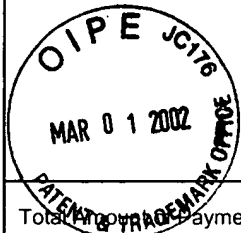
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# FEE TRANSMITTAL



Total Filing Fee Payment \$986.00

Complete if Known

Application No. 10/051,366  
 Filing Date January 18, 2002  
 First Named Inventor Peter Crane et al.  
 Group Art Unit 2834  
 Examiner Name  
 Atty. Docket Number 169.12-0514

## METHOD OF PAYMENT (Check One)

1. ☒ The Commissioner is hereby authorized to charge any additional fee required under 37 C.F.R. 1.16 and 1.17 and credit any over payments to Deposit Account No.11-0982. Deposit Account Name: Kinney & Lange, P.A.

2. ☒ Check Enclosed

## FEE CALCULATION

### 1. BASIC FILING FEE

| Large Entity Fee Code | Large Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Fee Description  |
|-----------------------|-----------------------|-----------------------|-----------------------|--|
| 101                   | 740                   | 201                   | 370                   | <input checked="" type="checkbox"/> Utility Filing Fee |
| 106                   | 330                   | 206                   | 165                   | <input type="checkbox"/> Design Filing Fee             |
| 108                   | 740                   | 208                   | 370                   | <input type="checkbox"/> Reissue Filing Fee            |
| 114                   | 160                   | 214                   | 80                    | <input type="checkbox"/> Prov. Filing Fee              |
| Subtotal (1) \$740.00 |                       |                       |                       |  |

### 2. EXTRA CLAIM FEES

|  | Number Claims         | Prior**               | Extra                 | Fee from Below  | Fee Paid |
|--|-----------------------|-----------------------|-----------------------|---|----------|
| Total  | 22                    | -                     | 20                    | = 2 x 18 =  | 36       |
| Indep.   | 3                     | -                     | 3                     | = 0 x 0 =   | 0        |
| Multiple Dependent Claims  |                       |                       |                       | * = *   |          |
| **Insert 3 and 20, or number previously paid if greater; Reissue see below |                       |                       |                       |   |          |
| Large Entity Fee Code  | Large Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Description   |          |
| 103  | 18                    | 203                   | 9                     | Claims in excess of 20                                  |          |
| 102  | 84                    | 202                   | 42                    | Independent claims in excess of 3                       |          |
| 104  | 280                   | 204                   | 140                   | Multiple Dependent Claim                                |          |
| 109  | 84                    | 209                   | 42                    | Reissue Independent Claims Over Original Patent         |          |
| 110  | 18                    | 210                   | 9                     | Reissue claims in excess of 20 and over original patent |          |
| Subtotal (2) \$36.00   |                       |                       |                       |   |          |

## FEE CALCULATION (Continued)

### 3. ADDITIONAL FEES

| Large Entity Fee Code     | Large Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Fee Description  | Fee paid |
|---------------------------|-----------------------|-----------------------|-----------------------|--|----------|
| 105                       | 130                   | 205                   | 65                    | Surcharge - Late filing fee or oath  | X        |
| 127                       | 50                    | 227                   | 25                    | Surcharge - late provisional filing fee or cover sheet                     | *        |
| 139                       | 130                   | 139                   | 130                   | Non-English specification  | *        |
| 147                       | 2,520                 | 147                   | 2,520                 | For Filing a Request for Reexamination                                     | *        |
| 115                       | 110                   | 215                   | 55                    | Extension for reply within first month                                     | *        |
| 116                       | 400                   | 216                   | 200                   | Extension for reply within second month                                    | *        |
| 117                       | 920                   | 217                   | 460                   | Extension for reply within third month                                     | *        |
| 118                       | 1,440                 | 218                   | 720                   | Extension for reply within fourth month                                    | *        |
| 128                       | 1,960                 | 280                   | 980                   | Extension for reply within fifth month                                     | *        |
| 120                       | 320                   | 220                   | 160                   | Filing a brief in support of an appeal                                     | *        |
| 121                       | 280                   | 221                   | 140                   | Request for oral hearing   | *        |
| 148                       | 110                   | 248                   | 55                    | Terminal Disclaimer Fee  | *        |
| 140                       | 110                   | 240                   | 55                    | Petition to revive - unavoidable   | *        |
| 141                       | 1,280                 | 241                   | 640                   | Petition to revive - unintentional   | *        |
| 142                       | 1,310                 | 242                   | 670                   | Utility/Reissue issue fee (inc. advance copies)                            | *        |
| 143                       | 490                   | 243                   | 260                   | Design issue fee (inc. advance copies)                                     | *        |
| 122                       | 130                   | 122                   | 130                   | Petitions to the Commissioner  | *        |
| 123                       | 50                    | 123                   | 50                    | Petitions related to provisional applications                              | *        |
| 126                       | 180                   | 126                   | 180                   | Submission of Information Disclosure Statement                             | *        |
| 581                       | 40                    | 581                   | 40                    | Recording each patent assignment per property (times number of properties) | X        |
| 179                       | 740                   | 279                   | 370                   | Request for Continued Examination (RCE)                                    | *        |
| Other fee (specify) _____ |                       |                       |                       |  | *        |
| Subtotal (3) \$210.00     |                       |                       |                       |  |          |

Signature David R. Fairbairn

Reg. No. 26,047

Date 3/1/02

Deposit Account No. 11-0982